

Amendment to the Specification:

Please amend the paragraph beginning at page 17, line 4 as follows:

As used herein, "PSMA" or "prostate-specific membrane antigen" protein refers to mammalian PSMA, preferably human PSMA protein and dimers thereof. Human PSMA includes the two protein products, PSMA and PSM', encoded by the two alternatively spliced mRNA variants (containing about 2,653 and 2,387 nucleotides, respectively) of the PSMA cDNA disclosed in Israeli *et al.* (1993) *Cancer Res.* 53:227-230; Su *et al.* (1995) *Cancer Res.* 55:1441-1443; US 5,538,866, US 5,935,818, and WO 97/35616, the contents of which are hereby incorporated by reference. The long transcript of PSMA encodes a protein product of about 100-120 kDa molecular weight characterized as a type II transmembrane receptor having sequence homology with the transferrin receptor and having NAALADase activity (Carter *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:749-753). Accordingly, the term "human PSMA" refers to at least two protein products, human PSMA and PSM', which have or are homologous to (e.g., at least about 85%, 90%, 95% identical to) an amino acid sequence; ~~as shown in Israeli *et al.* (1993) *Cancer Res.* 53:227-230; Su *et al.* (1995) *Cancer Res.* 55:1441-1443; US 5,538,866, US 5,935,818, and WO 97/35616~~

MetTrpAsnLeuLeuHisGluThrAspSerAlaValAlaThrAlaArgArgProArgTrpLeuCysAlaGlyAlaLeuValLeuAlaGlyGlyPhePheLeuLeuGlyPheLeuPheGlyTrpPheIleLysSerSerAsnGluAlaThrAsnIleThrProLysHisAsnMetLysAlaPheLeuAspGluLeuLysAlaGluAsnIleLysLysPheLeuTyrAsnPh  
eThrGlnIleProHisLeuAlaGlyThrGluGlnAsnPheGlnLeuAlaLysGlnIleGlnSerGlnTrpLysGluPheGlyLeuAspSerValGluLeuAlaHisTyrAspValLeuLeuSerTyrProAsnLysThrHisProAsnTyrIleSerIleIleAsnGluAspGlyAsnGluIlePheAsnThrSerLeuPheGluProProProGlyTyrGluAsnValSerAspIleValProProPheSerAlaPheSerProGlnGlyMetProGluGlyAspLeuValTyrValAsnTyrAlaArgThrGluAspPhePheLysLeuGluArgAspMetLysIleAsnCysSerGlyLysIleValIleAlaArgTyrGlyLysValPheArgGlyAsnLysValLysAsnAlaGlnLeuAlaGlyAlaLysGlyValIleLeuTyrSerAspProAlaAspTyrPheAlaProGlyValLysSerTyrProAspGlyTrpAsnLeuProGlyGlyGlyValGlnArgGlyAsnIleLeuAsnLeuAsnGlyAlaGlyAspProLeuThrProGlyTyrProAlaAsnGluTyrAlaTyrArgArgGlyIleAlaGluAlaValGlyLeuProSerIleProValHisProIleGlyTyrTyrAspAlaGlnLysLeuLeuGluLysMetGlyGlySerAlaProProAspSerSerTrpArgGlySerLeuLysValProTyrAsnValGlyProGlyPheThrGlyAsnPheSerThrGlnLysValL

ysMetHisIleHisSerThrAsnGluValThrArgIleTyrAsnValIleGlyThrLeuArgGlyAlaValGluProAspA  
rgTyrValIleLeuGlyGlyHisArgAspSerTrpValPheGlyGlyIleAspProGlnSerGlyAlaAlaValValHisG  
luIleValArgSerPheGlyThrLeuLysLysGluGlyTrpArgProArgArgThrIleLeuPheAlaSerTrpAspAla  
GluGluPheGlyLeuLeuGlySerThrGluTrpAlaGluGluAsnSerArgLeuLeuGlnGluArgGlyValAlaTyr  
IleAsnAlaAspSerSerIleGluGlyAsnTyrThrLeuArgValAspCysThrProLeuMetTyrSerLeuValHisAs  
nLeuThrLysGluLeuLysSerProAspGluGlyPheGluGlyLysSerLeuTyrGluSerTrpThrLysLysSerPro  
SerProGluPheSerGlyMetProArgIleSerLysLeuGlySerGlyAsnAspPheGluValPhePheGlnArgLeuG  
lyIleAlaSerGlyArgAlaArgTyrThrLysAsnTrpGluThrAsnLysPheSerGlyTyrProLeuTyrHisSerVal  
TyrGluThrTyrGluLeuValGluLysPheTyrAspProMetPheLysTyrHisLeuThrValAlaGlnValArgGly  
GlyMetValPheGluLeuAlaAsnSerIleValLeuProPheAspCysArgAspTyrAlaValValLeuArgLysTyr  
AlaAspLysIleTyrSerIleSerMetLysHisProGlnGluMetLysThrTyrSerValSerPheAspSerLeuPheSer  
AlaValLysAsnPheThrGluIleAlaSerLysPheSerGluArgLeuGlnAspPheAspLysSerAsnProIleValLe  
uArgMetMetAsnAspGlnLeuMetPheLeuGluArgAlaPheIleAspProLeuGlyLeuProAspArgProPheT  
yrArgHisValIleTyrAlaProSerSerHisAsnLysTyrAlaGlyGluSerPheProGlyIleTyrAspAlaLeuPheA  
spIleGluSerLysValAspProSerLysAlaTrpGlyGluValLysArgGlnIleTyrValAlaAlaPheThrValGlnA  
laAlaAlaGluThrLeuSerGluValAla (SEQ ID NO:1) or

MetLysAlaPheLeuAspGluLeuLysAlaGluAsnIleLysLysPheLeuTyrAsnPheThrGlnIleProHisLeu  
AlaGlyThrGluGlnAsnPheGlnLeuAlaLysGlnIleGlnSerGlnTrpLysGluPheGlyLeuAspSerValGluL  
euAlaHisTyrAspValLeuLeuSerTyrProAsnLysThrHisProAsnTyrIleSerIleIleAsnGluAspGlyAsnG  
luIlePheAsnThrSerLeuPheGluProProProProGlyTyrGluAsnValSerAspIleValProProPheSerAlaPh  
eSerProGlnGlyMetProGluGlyAspLeuValTyrValAsnTyrAlaArgThrGluAspPhePheLysLeuGluAr  
gAspMetLysIleAsnCysSerGlyLysIleValIleAlaArgTyrGlyLysValPheArgGlyAsnLysValLysAsn  
AlaGlnLeuAlaGlyAlaLysGlyValIleLeuTyrSerAspProAlaAspTyrPheAlaProGlyValLysSerTyrPr  
oAspGlyTrpAsnLeuProGlyGlyGlyValGlnArgGlyAsnIleLeuAsnLeuAsnGlyAlaGlyAspProLeuT  
hrProGlyTyrProAlaAsnGluTyrAlaTyrArgArgGlyIleAlaGluAlaValGlyLeuProSerIleProValHisPr  
olleGlyTyrTyrAspAlaGlnLysLeuLeuGluLysMetGlyGlySerAlaProProAspSerSerTrpArgGlySerL  
euLysValProTyrAsnValGlyProGlyPheThrGlyAsnPheSerThrGlnLysValLysMetHisIleHisSerThr  
AsnGluValThrArgIleTyrAsnValIleGlyThrLeuArgGlyAlaValGluProAspArgTyrValIleLeuGlyGl  
yHisArgAspSerTrpValPheGlyGlyIleAspProGlnSerGlyAlaAlaValValHisGluIleValArgSerPheGl

yThrLeuLysLysGluGlyTrpArgProArgArgThrIleLeuPheAlaSerTrpAspAlaGluGluPheGlyLeuLeu  
GlySerThrGluTrpAlaGluGluAsnSerArgLeuLeuGlnGluArgGlyValAlaTyrIleAsnAlaAspSerSerIl  
eGluGlyAsnTyrThrLeuArgValAspCysThrProLeuMetTyrSerLeuValHisAsnLeuThrLysGluLeuL  
ysSerProAspGluGlyPheGluGlyLysSerLeuTyrGluSerTrpThrLysLysSerProSerProGluPheSerGly  
MetProArgIleSerLysLeuGlySerGlyAsnAspPheGluValPhePheGlnArgLeuGlyIleAlaSerGlyArgAl  
aArgTyrThrLysAsnTrpGluThrAsnLysPheSerGlyTyrProLeuTyrHisSerValTyrGluThrTyrGluLeu  
ValGluLysPheTyrAspProMetPheLysTyrHisLeuThrValAlaGlnValArgGlyGlyMetValPheGluLeu  
AlaAsnSerIleValLeuProPheAspCysArgAspTyrAlaValValLeuArgLysTyrAlaAspLysIleTyrSerIle  
SerMetLysHisProGlnGluMetLysThrTyrSerValSerPheAspSerLeuPheSerAlaValLysAsnPheThrG  
luIleAlaSerLysPheSerGluArgLeuGlnAspPheAspLysSerAsnProIleValLeuArgMetMetAsnAspGl  
nLeuMetPheLeuGluArgAlaPheIleAspProLeuGlyLeuProAspArgProPheTyrArgHisValIleTyrAla  
ProSerSerHisAsnLysTyrAlaGlyGluSerPheProGlyIleTyrAspAlaLeuPheAspIleGluSerLysValAsp  
ProSerLysAlaTrpGlyGluValLysArgGlnIleTyrValAlaAlaPheThrValGlnAlaAlaAlaGluThrLeuSer  
GluValAla (SEQ ID NO:2); or which is encoded by (a) a naturally occurring human PSMA  
nucleic acid sequence (e.g., Israeli *et al.* (1993) *Cancer Res.* 53:227-230 or US 5,538,866); (b) a  
nucleic acid sequence degenerate to a naturally occurring human PSMA sequence; (c) a nucleic  
acid sequence homologous to (e.g., at least about 85%, 90%, 95% identical to) the naturally  
occurring human PSMA nucleic acid sequence; or (d) a nucleic acid sequence that hybridizes to  
one of the foregoing nucleic acid sequences under stringent conditions, e.g., highly stringent  
conditions.